

CLAIMS

1. (currently amended) A suspension for a vehicle having a body having a vehicle roll center, the suspension comprising:

a first suspension assembly that extends between a first wheel assembly and the body, wherein the first suspension assembly defines an instant center;

a second suspension assembly that extends between a second wheel assembly and the body, wherein the second suspension assembly defines an instant center;

wherein the first wheel assembly and the second wheel assembly are aligned so that a vertical centerline of each wheel assembly lies within a vertical plane that extends therebetween; and

wherein the instant center of each wheel assembly suspension is located within the vertical plane, below said roll center located within the vertical plane; wherein position of the roll center is maintained above the instant center during motion of the vehicle.

2. (currently amended) A suspension for a vehicle having a body, the suspension comprising:

a first control arm that extends between a wheel assembly and said body, wherein the first control arm is connected to the body at a first pivot point and further wherein said first control arm defines a first suspension plane;

a second control arm that extends between said wheel assembly and said body, wherein the second control arm is connected to the body at a second pivot point, wherein said second control arm defines a second suspension plane, and further wherein a distance between the first pivot point and the second pivot point is constant;

a vertical plane extending through a vertical centerline of said wheel assembly;

wherein an intersection between said vertical plane and said first suspension plane defines a first line, and an intersection between said vertical plane and second suspension plane defines a second line, said first line and said second line intersection at an instant center which lies below a roll center of said vehicle; and

wherein said first control arm and said second control arm do not cross one another when said first wheel assembly is viewed from one of a front and rear of said vehicle.

3. (currently amended) A suspension system for a vehicle, said suspension system comprising:

a first suspension arm having two degrees of restriction and rotatably fixed between a wheel assembly and said body, wherein said first suspension arm defines a first suspension plane;

a second suspension arm having two degrees of restriction and rotatably fixed between said wheel assembly and said body, wherein said second suspension arm defines a second suspension plane;

a vertical plane extending through a vertical centerline of said wheel assembly;

wherein an intersection between said vertical plane and said first suspension defines a first line, and an intersection between said vertical plane and said second suspension plan defines a second line, said first line and said second line intersecting at an instant center which lies below a roll center of said vehicle; and

wherein said first suspension arm ~~is shorter than~~ and said second suspension arm cross in superposition.